

E n g l i s h

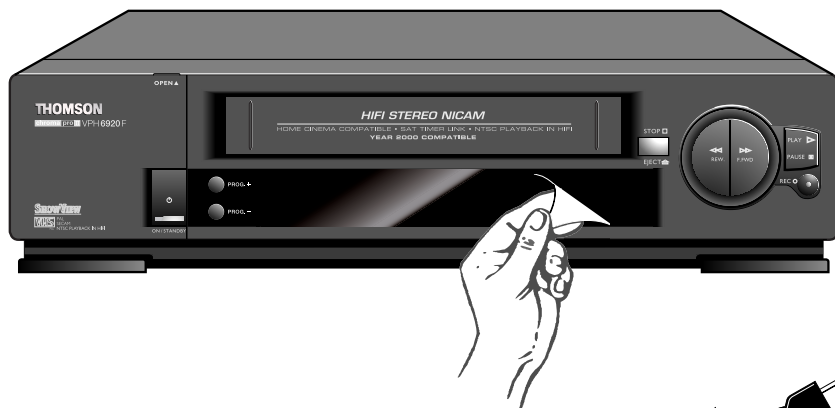
P l e a s e r e a d  
t h i s f i r s t s



**THOMSON**

# BEFORE YOU START

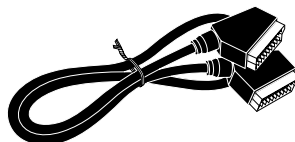
Remove all the packaging and protective films. Before setting up your video recorder, you should have all the following elements in your possession.



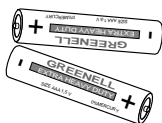
R.F. lead



Mains lead



Scart-cable  
(audio-video)



## Remote control and batteries

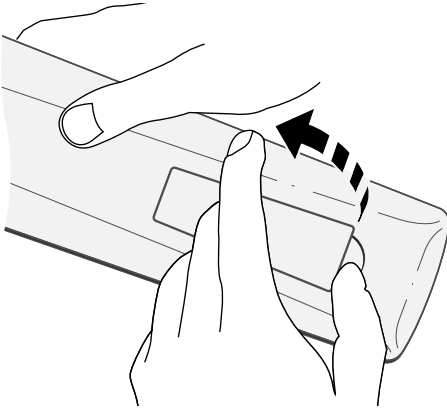


### Set up and user manuals

*These documents have been printed on environmentally-friendly recycled, non-bleached paper.*

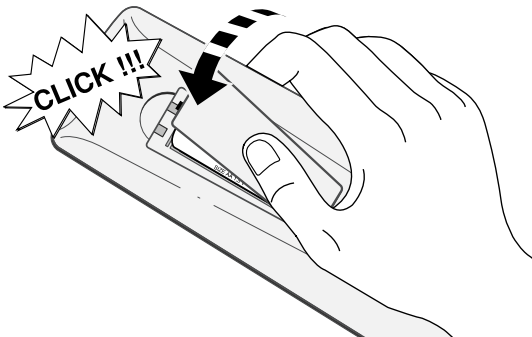
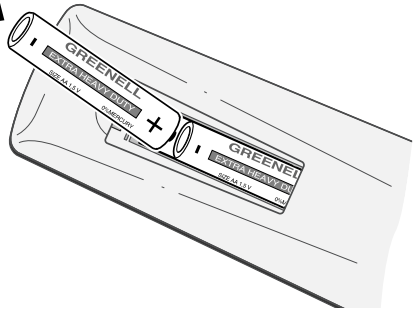


# FIT THE BATTERIES



**1** Remove the cover.

**2** Insert the batteries according to this drawing.





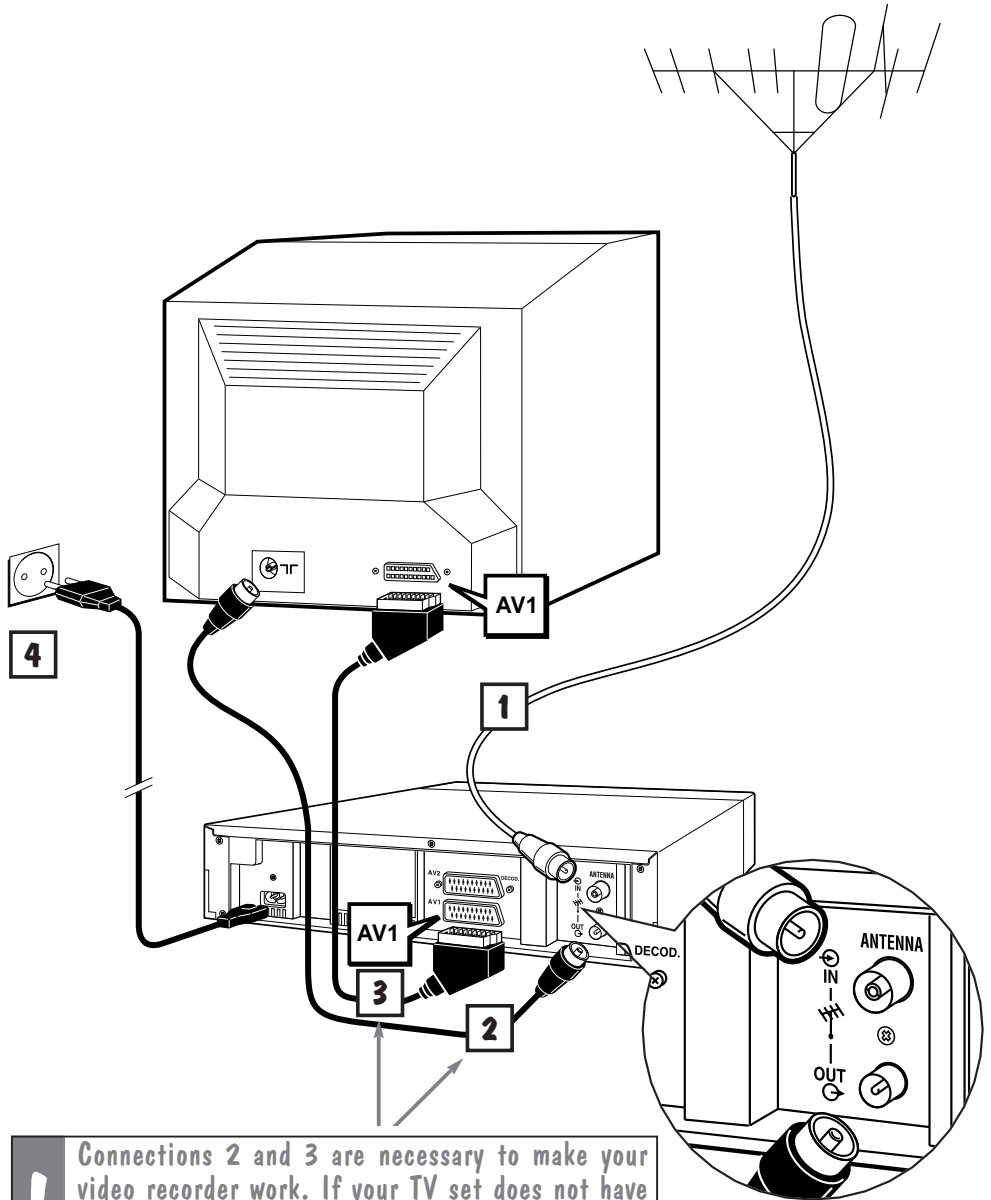
**3** Replace the cover.



*Please respect the environment! Before throwing any batteries away, consult your distributor who may be able to them back for specific recycling.*



- 1** Disconnect the outside aerial cable from the TV set and reconnect it to the (  IN socket) on your video recorder.
  
- 2** Connect the TV set to the video recorder (  OUT socket) with the supplied aerial cable.
  
- 3** Connect the video recorder (AUDIO/VIDEO 1 socket) to the TV set using the supplied Scart cable.
  
- 4** Connect the video recorder to a mains socket with the mains lead. The display on the video recorder comes on.



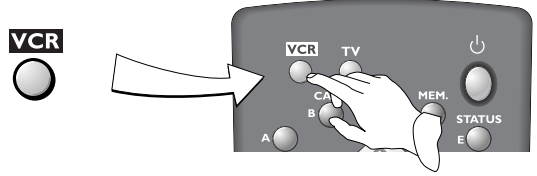
**!** Connections 2 and 3 are necessary to make your video recorder work. If your TV set does not have a SCART socket, please consult your dealer who will indicate which cable to use.

# AUTOMATIC SET-UP

The settings on this page allow you to search and automatically store the channels in your region. To help identify the programmes, we suggest that you have to hand a TV guide or daily newspaper.

# 1

Press the **VCR** key on your remote control.

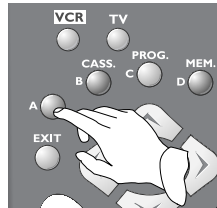


Hold key **A** down on the remote control.

# 2

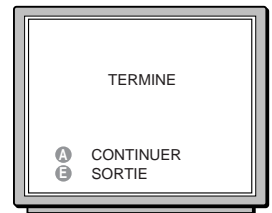
If the menu does not appear, select the **AV** socket on your TV set).

The video recorder looks for the channels you can receive in your region and stores them.



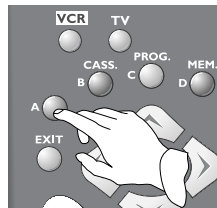
# 3

Wait a moment until the following menu appears.



# 4

Press **A** to continue.



To check the automatic channel set up, please turn to pages 6 and 7.

It is essential that the time and date are correctly set in order to successfully programme recordings.

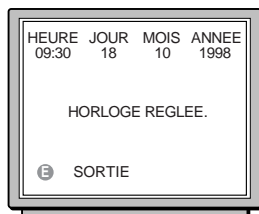
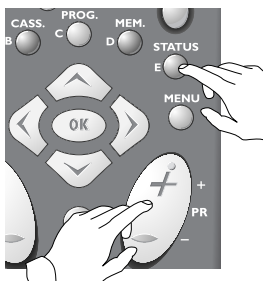
# SETTING THE CLOCK

Your video recorder recognises the automatic time setting signals transmitted by certain channels. Once the automatic set up of the channels is complete, check the information displayed.

# 5

When date and time are set correctly, press **E** several times to leave the menus.

If not press **PR+** to continue.

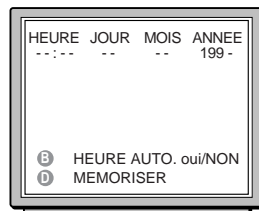
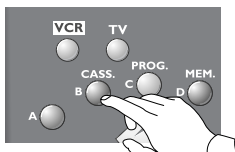
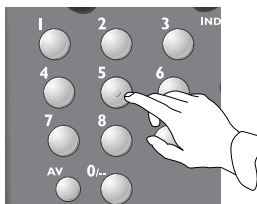


# 6

If the time is incorrect or has not been transmitted: Set the clock with the digital keys.

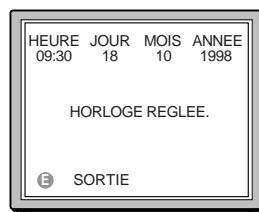
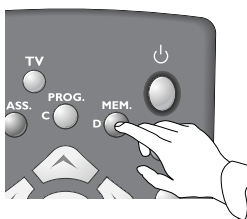
Example: 09, 30, 18, 10 and 8 for 9.30 a.m., 18th October 1998.

Press **B** to switch off the automatic clock (oui/NON).



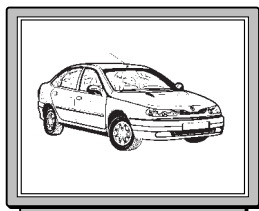
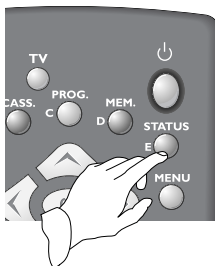
# 7

Press **D** to store the time setting.



# 8

Press **E** to leave the menus.



# CHECKING THE AUTOMATIC CHANNEL SET UP

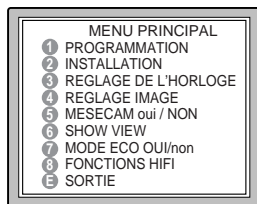
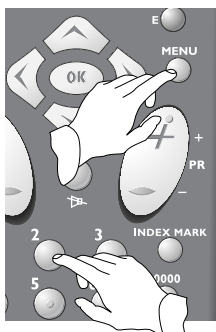
Press the **VCR** key on your remote control.

**VCR**



1

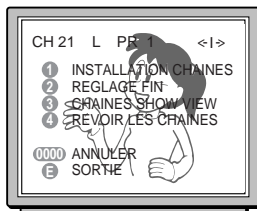
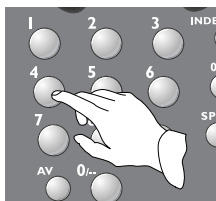
Press **MENU**, then select **INSTALLATION** by pressing key 2.



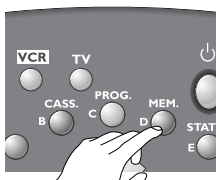
ShowView is a registered trademark of Gemstar Development Corporation. The ShowView system is manufactured under licence from Gemstar Development Corporation.

2

Select **REVOIR LES CHAINES** with key 4.

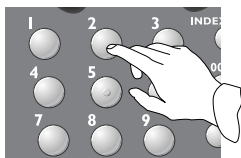


If the programme number (PR-) corresponds to the picture on the screen, go to the next channel using key **D**.

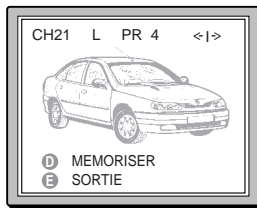
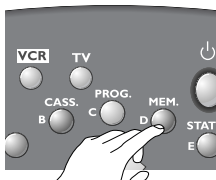


3

If the programme number (PR-) does not correspond to the picture, enter the correct programme number and validate by pressing key **D**.



Go to the next channel by pressing **D**.



For 2-digit channels, press **0/--** first (example: 0, 1, 2 for Pr12).



After the automatic set up, some channels may not have the right number. Follow the steps given below to correct the set-up by changing the channel numbers or by fine tuning.

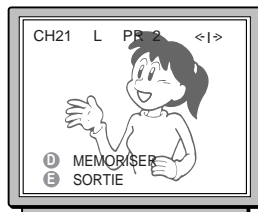
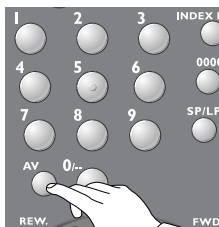
Your video recorder automatically attributes TV channel number 99 to channel 38. This channel is usually used by satellite receivers to transmit pictures through the aerial cable to another unit (TV or video recorder in this case).

# 4

If the channel is scrambled, choose **DECODEUR OUI** with **AV** and enter the number of the correct channel.

Validate with **D**.

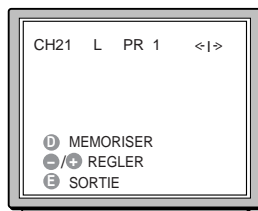
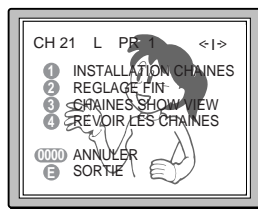
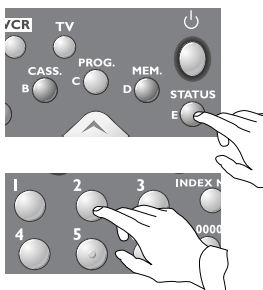
Continue with **D**.



# 5

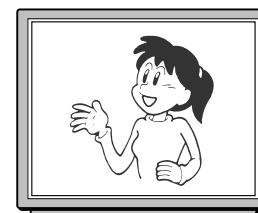
If the picture is poor, press **E** and select **REGLAGE FIN** (press key 2, then adjust with **PR-/PR+**) or erase the channel with key **0000**.

Return to stage 2 to check all the programmes.



# 6

When all the channels are checked, press **E** several times to leave the menus.



# MANUAL CHANNEL SET UP

Press the **VCR** key on your remote control.

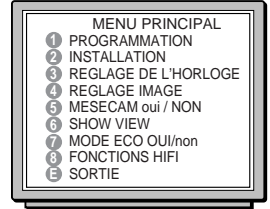
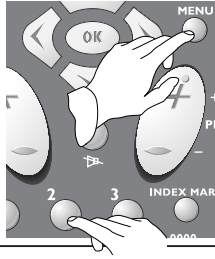
**VCR**



1

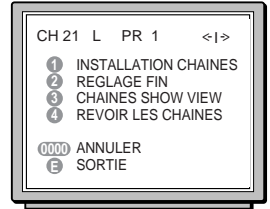
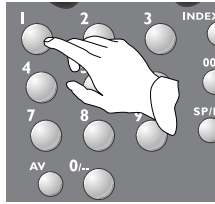
Press **MENU**.

Press button **2**  
to select **INSTALLATION**.



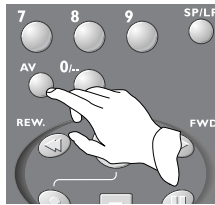
2

Press **1** to select  
**INSTALLATION CHAÎNES**.



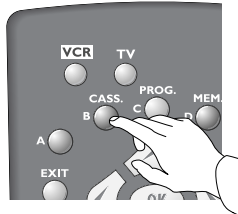
3

Press **AV** to choose the  
reception standard.  
**L** = SECAM (France)  
**BG** = Western Europe.



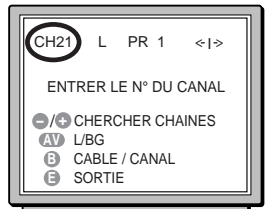
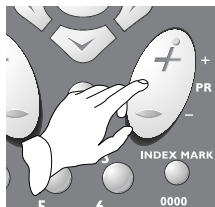
4

Press **B** to choose the cable  
channels (**CC**) or the  
channels received via your  
roof aerial (**CH**) (channel).



5

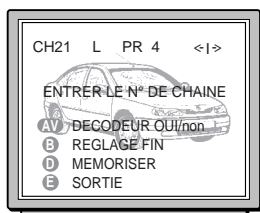
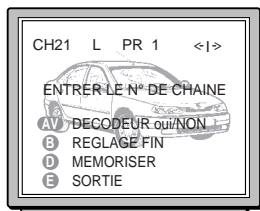
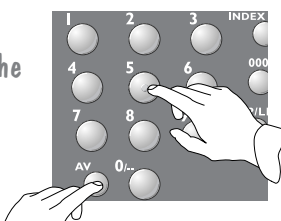
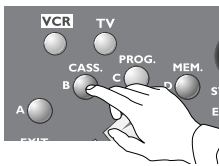
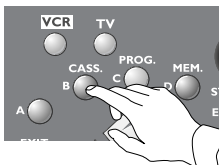
The channel set up starts  
when you press **PR-** or **PR+**  
or enter the channel numbers  
(**CH21**).



Some countries (Switzerland, Netherlands...) have staggered or half-channels. To receive the channels from your cable network, for each TV channel you should enter the nearest channel (e.g. 45 for 45.5) and use the fine tuning in stage 6. Consult your cable operator to obtain the list of the channels.

# 6

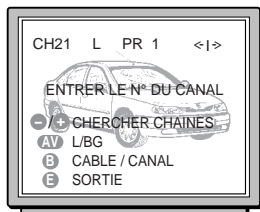
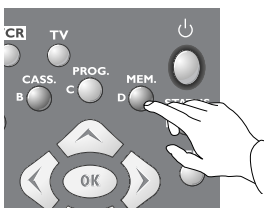
When a channel is found, the pictures appear. If the pictures are poor, try **REGLAGE FIN** (press **B**, then adjust with **PR-/PR+**). If the adjustment is correct, press **B** to carry on with channel set-up. For 2-digit channels, press **0/--** first (example: 0, 1, 2 for Pr12). If you have a decoder connected to **AV2**, choose **DECODEUR OUI** to turn the connection on and enter the channel number.



# 7

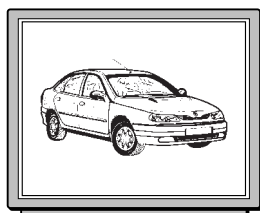
Store this channel with **D**.

To search for another channel, return to step 5.



# 8

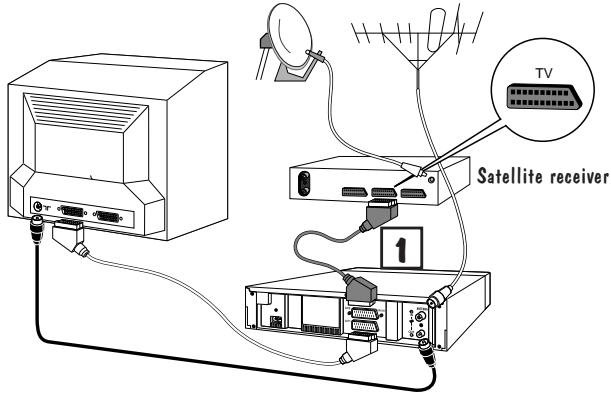
When all the channels are set up, press several times on **E** to leave the menus.



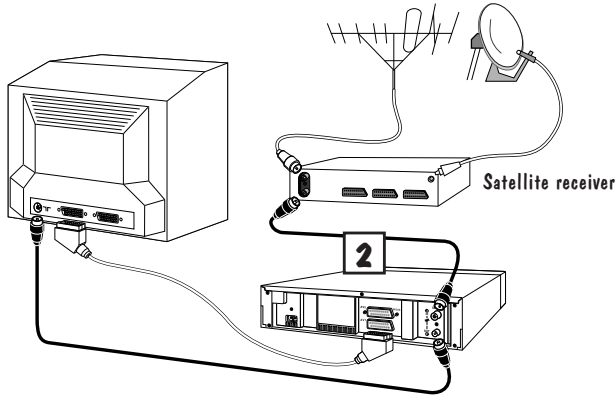
# CONNECTING A SATELLITE RECEIVER

Further information can be found in the User Manual, page 10,11 and 12.

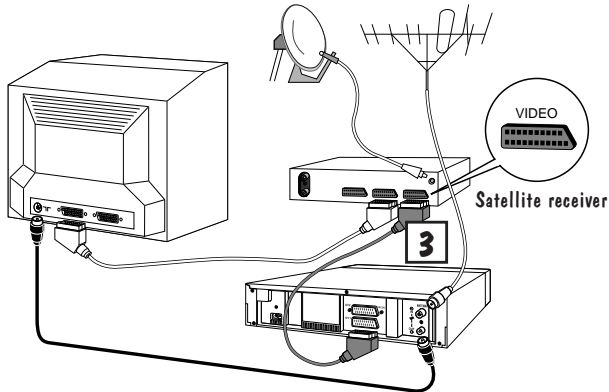
**1** With a Scart cable the video recorder takes priority.



**2** With an R.F. lead (satellite sound in mono only), the video recorder takes priority.



**3** With a Scart cable the satellite receiver takes priority.





Thomson  
Multimedia  
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92648 Boulogne  
Cedex  
France  
RCS Nanterre  
B 322 019 464

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**THOMSON**

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**THOMSON**

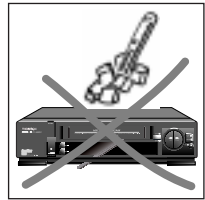
## Guarantee

The type and production number of your appliance are printed on the guarantee certificate delivered with your video recorder. Keep this certificate as well as the invoice. These documents are indispensable for claiming your guarantee rights.

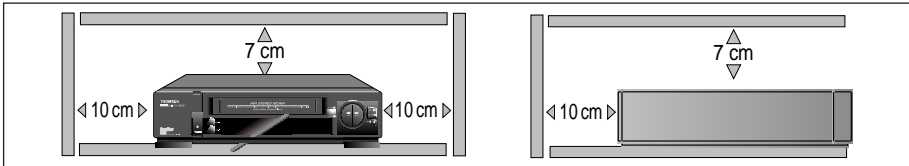
- **All repairs during the guarantee period must be carried out by an authorised technician representing our brand.**
- **If this condition is not met, your rights will no longer be valid.**
- **Never open the appliance yourself, since this may be dangerous for you or damage the equipment.**

## Precautions

**Setting up** - Ensure that the mains supply in your house complies with that indicated on the identification sticker located on the back of your appliance.  
Install the video recorder horizontally, away from any source of heat (fireplace) or appliances creating strong magnetic or electric fields.



If you install your video recorder in a purpose-built unit, check that the air vents are not obstructed. Allow a clearance of 10 cm on either side and at the rear of the appliance and at least 7 cm above.



**Use** - If your appliance, or a cassette, has been stored in a very cold atmosphere for a certain amount of time (transported during winter for example), wait approximately 2 hours before using your video recorder. The openings located on the top and the bottom are for ventilation purposes. They should not be obstructed. In the event of lightning, the appliance should be disconnected from the external aerial.

Even when the on/off switch is off, the video recorder is not completely cut off from the mains. To disconnect it completely, it is necessary to remove the mains plug from the mains socket.

Under no circumstances should this appliance be put to industrial use. It is designed solely for domestic operation.

**Maintenance** - Use a dry, clean, soft cloth. Do not use any scouring agents, solvents or abrasive products, etc. If an object or liquid enters inside the appliance, unplug it immediately and have it checked by an authorised technician.

**It is illegal to make total or partial copies of recordings protected by copyright laws without explicit permission of the copyright holder.**

MINITEL IN FRANCE

3615 THOMSON\*  
\* 1.29 FF per minute

**!** Before using your video recorder, you must carry out the installation and setup procedure described in the Getting Started guide (1).

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# CONTROLLING the TV set

*Depending on the type of TV set you own, this remote control may not be compatible or certain functions may not be available.*

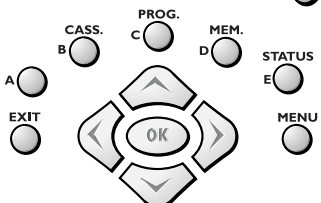
Your remote control can be used for controlling certain functions of most of the TV sets of our make. To this end, you will have to programme it with one of the following codes: 000 for TV sets of the last generation and 001 for the others.



To control your TV set, press this key first.



To switch the TV set on or off.



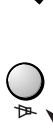
These keys are the same as certain functions on your TV set remote control (if it is our brand).

To adjust the sound volume.



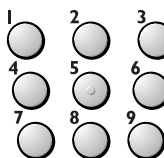
To increase the image size / zoom +.  
To decrease the image size / zoom -.

These two functions are available on **THOMSON** TV sets only.



To change the channel.

To switch off the sound.



To switch the TV set on or to select a channel.

To select a SCART socket and view the pictures of the AV unit connected to this socket.

## STORING THE TV CODE


- Press the **TV** key on your remote control.
- Hold down the **MENU** key on your remote control and key in one of the following codes: **000** or **001**.
- Release the **MENU** key.



# CONTROLLING the video recorder

Point the remote control towards the video recorder when you press a key.

To control your video recorder, press this key first.




To display the main menu.

To adjust the picture.

To switch the video recorder on or off.

To display the programme menu.

To store or confirm.

To leave the menu at any time, or display the information screen.

To display the main menu.

To leave the menu at any time.

To select the AV units connected to the audio/video sockets (AV 1/2/3).

To change the channel.

To double the recording time of a tape with LP.

To select a channel. For 2-digit channels, press 0/-- first (example: 0, 1, 2 for Pr12).

The controls/functions below are also to be found on the front of the video recorder.

Reverse → REW.      PLAY      FWD. → Forward

Stop → STOP      PAUSE → Pause

Record → REC.



# MONITORING the operation

.....



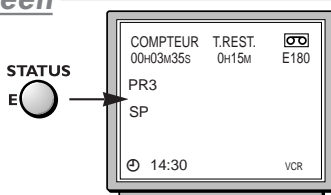
## The display

- : Play.
- : Fast play.
- : Forward.
- ←←←-- : Reverse (rewinding).
- : Freeze frame.
- : Variable slow motion.
- ☀ : Pause-record (flashing).
- : Currently recording.
- ⌚ : Programmed recording.
- Pr 3 : Picture and sound from a TV channel.
- AV1-AV2 : AV1-AV2 - Picture and sound from an AV unit connected to the SCART sockets (AUDIO/VIDEO) on the back of the video recorder.
- AV3 : AV3 - Picture and sound from an AV unit connected on the front of the video recorder.

- 01h 15m 35s : Tape counter (running time).
- 09:53 : Time.
- 📀 : Presence of a tape in the video recorder.
- VIDEO** : The video recorder transmits the picture and the sound to the TV set.
- SP** : Play/record at standard speed (Standard Play).
- LP** : Play/record in long play (Long Play).
- SLP** : Very long play of an NTSC tape (Super Long Play).
- VPS** : The current programme is in VPS.
- PDC** : The current programme is in PDC.

## On the screen

The video recorder automatically detects the type of standard tape loaded (E30, 60, 120...). When you call the information screen up, the video recorder indicates the cassette type and the time remaining until the end of the tape.



**VCR** Press the **VCR** key on your remote control.

# T H E m e n u s

The menus allow access to the functions by selecting the corresponding numbers.

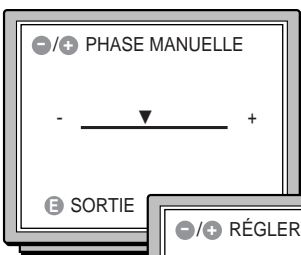
Example: with a tape loaded in the play mode (▶).

**MENU** or **A**



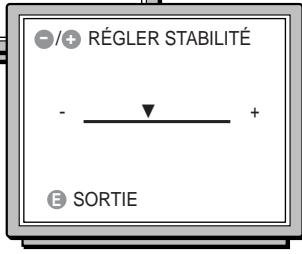
To choose, enter the digit found in front of the function.

**4** or **CASS.** or **B**

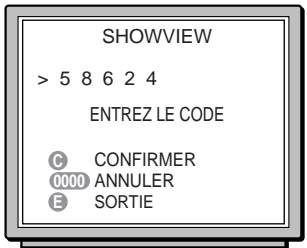


With the freeze frame feature (||) activated, you can improve the picture quality.

**A** → **4**

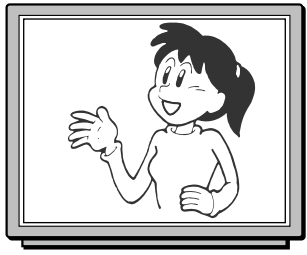


**PROG.**  
**C**



To leave the menu at any time.

**EXIT** or **STATUS** or **E**



# VIEWING

## a t a p e

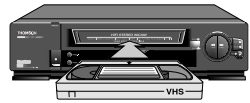
**VCR**  Press the **VCR** key on your remote control.

To view a tape and explore the recordings on it, freeze a frame, find precise sequences with the fast search, rewind to the start or the end of the tape.

### Play

If picture quality is poor, checked that the MESECAM function is deselected in the **MENU PRINCIPAL**.

In case of poor quality PAL sources or old PAL tapes, please turn MESECAM off.



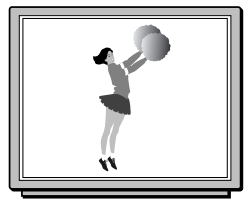
### Fast search

Press several times on the keys to vary the speed and direction of the fast search.



### Freeze a picture - Pause

Press to move onto the next picture.



### Variable slow motion

Press several times on the keys to vary the speed and direction of the slow motion.



### Stop

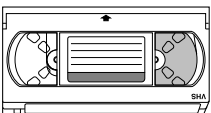
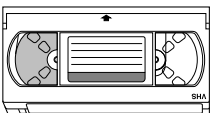
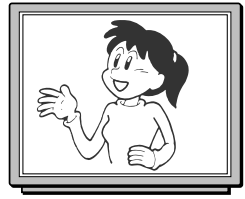
Press the key.



STOP

### Forward or reverse

Press the keys several times.



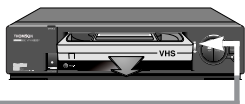
Start of the tape

End of the tape

### Ejection of the tape



EJECT



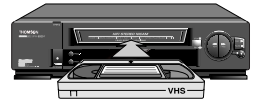
**VCR** Press the **VCR** key on your remote control.

# RECORDING a programme

You can record TV programmes or pictures transmitted by a AV unit connected to the back of the video recorder (SCART sockets AV1/AV2).

## Preparing

Insert a tape.



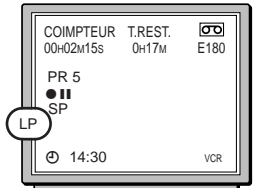
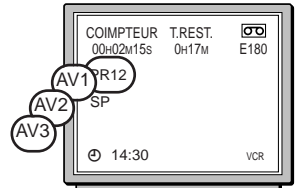
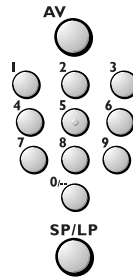
To proceed to the settings for your recording, always call up the information screen.

Choose a channel or a AV unit connected to the audio/video sockets (**AV1**, **AV2** or **AV3**).

Select the sockets with **AV**.

For 2-digit channels, press **0/--** first (example: 0, 1, 2 for Pr12).

Choose the **SP** or **LP** length.  
**SP** for normal play.  
**LP** for long play.

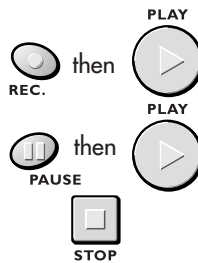


## Recording

Switch to pause-record then start the recording.

Pause then resume recording.

Finish the recording.



## Record with automatic pause

Press the key twice.

Enter the time of the end of the current programme with the digital keys.

To leave the menus, press **E** several times.



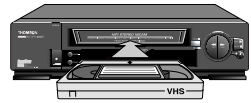
# PROGRAMMING a r e c o r d i n g .....

**VCR** Press the **VCR** key on your remote control.

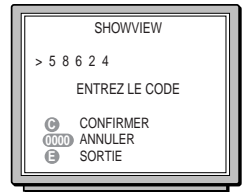
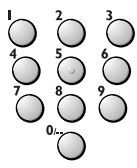
*You can programme a recording using the ShowView codes in your TV listings magazine or using the manual programming procedure, if you do not know the codes.*

## with ShowView codes

Display the **SHOWVIEW** menu.



Enter the programme code.



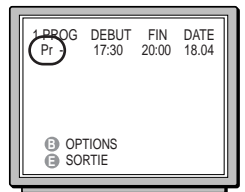
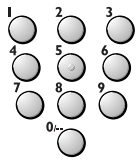
Confirm.



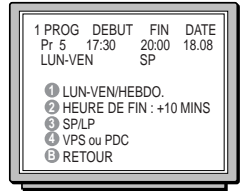
### First programme ?

The first time you programme a channel, the video recorder asks you to enter the channel number (PROG-).

For 2-digit channels, press **0/--** first (example: 0, 1, 2 for Pr12).



To access the programming options, press **B**. See also page 14 and 15.



End programming.



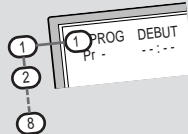
Switch off the video recorder to set it to recording standby.





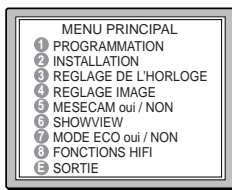
ShowView codes

Your video recorder has 8 programme memories. You can therefore programme 8 recordings over a one year period. The memory number is indicated in the top left-hand corner of the screen.



## Without ShowView codes

Display **MENU PRINCIPAL**.



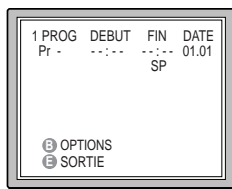
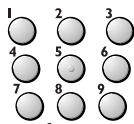
Select **PROGRAMMATION**.



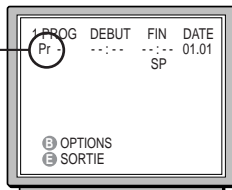
Select **ENTREE INFOS**.



Programme the recording of a channel by entering its number (PR-) or selecting a set connected to the audio-visual sockets **AV1**, **AV2** or **AV3** if you want to trigger programming from another programmed set (satellite receiver).



For 2-digit channels, press **0/--** first (example: 0, 1, 2 for Pr12).

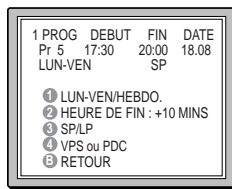


Then enter

- start time,
- the time the programme ends and
- the date if the recording is not for the same day.



To access the programming options, press **B**. See also page 14 and 15.



Switch off the video recorder to set it to recording standby.

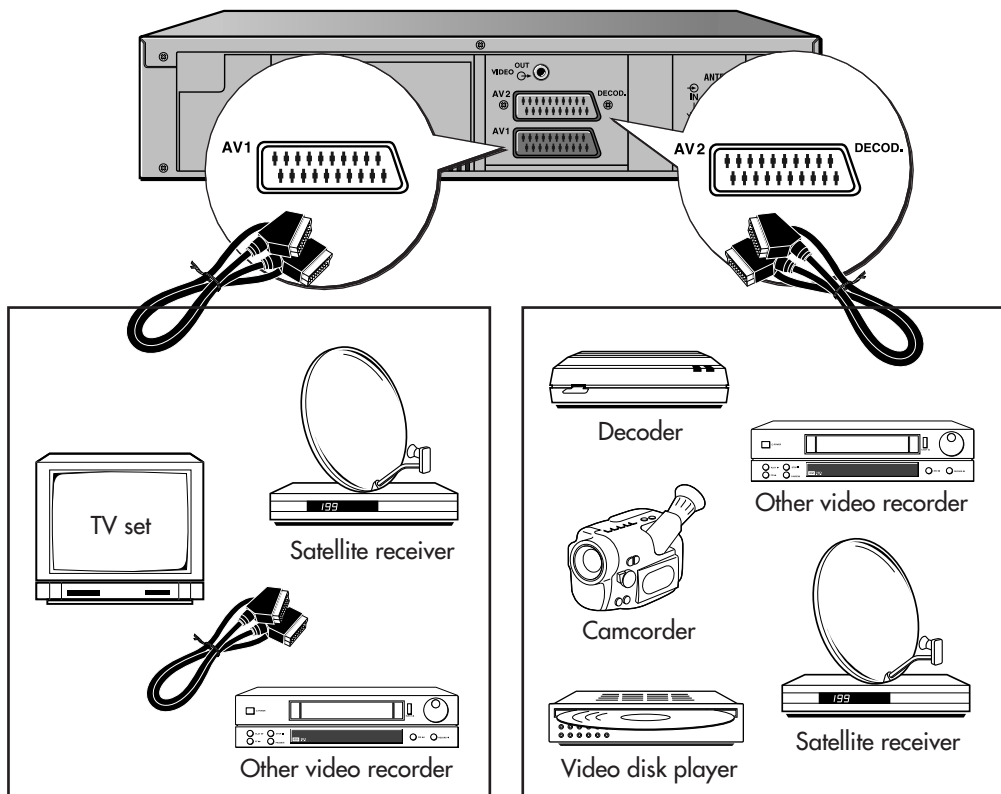




# AUDIO/VIDEO

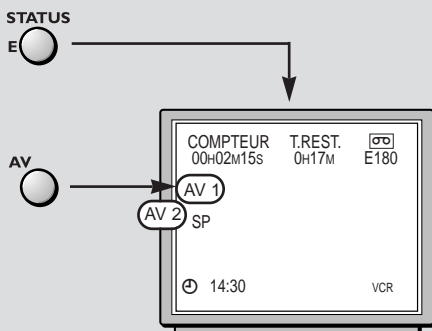
## 1 / 2

To view and/or copy pictures from a connected AV unit.



Display the control screen with key **EXIT/STATUS** and select socket AV1 or AV2 with the **AV** key on the remote control.

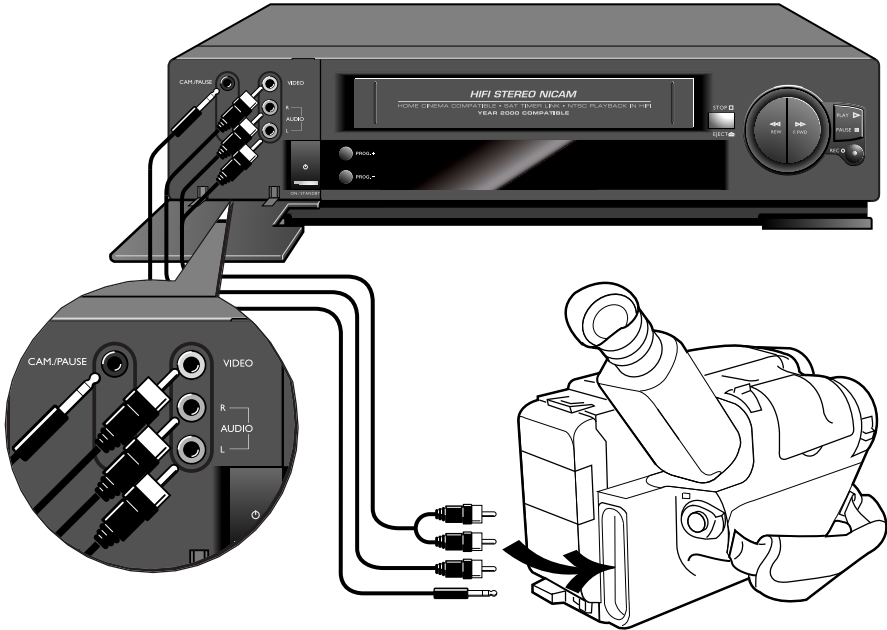
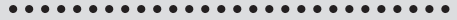
Pictures from an appliance switched on play mode and connected to the AV2 socket are transferred to the AV1 socket. If your TV set is connected to this socket, you can view the pictures from the connected appliance.



# AUDIO/VIDEO

## 3

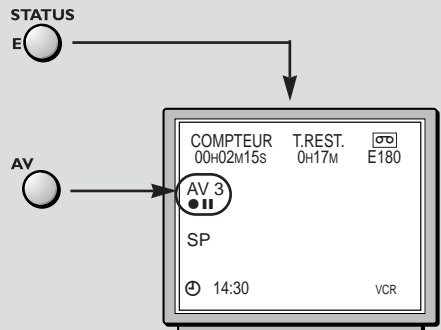
*AUDIO/VIDEO 3 sockets on the front of the video recorder to view and/or copy your films (filmed on your camcorder) on video tapes.*



Display the control screen with key **E** and select AV3 with the **AV** key on the remote control.

With compatible camcorders, the **pause** socket makes copying easy by triggering off recording of the video recorder when the camcorder transfers from PAUSE to PLAY.

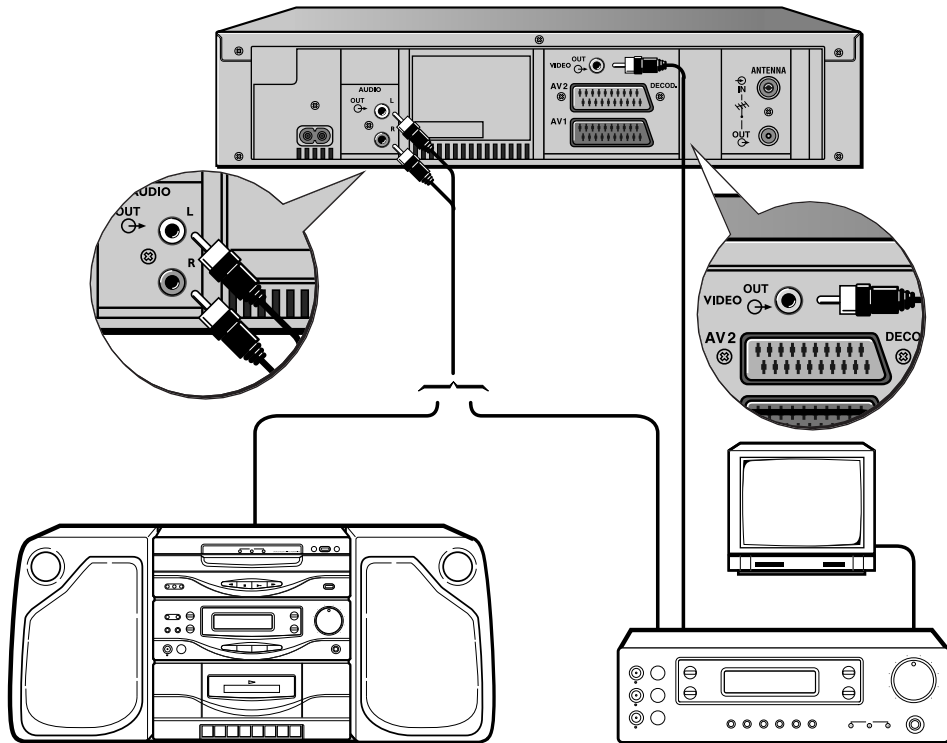
The video recorder should be in pause-record **● ||**.



# HI-FI VIDEO RECORDER and stereo effect

.....

For further information concerning AV units connected to your video recorder, consult their user manual or your dealer.



## Hi-fi audio system

The two Cinch sockets **AUDIO OUT** (red and white) enable you to connect your video recorder to your hi-fi audio system. So you can reproduce the sound effects on your tapes (musicals, films, etc.) on your hi-fi audio system.

## Audio/Video or Dolby Pro Logic amplifier

You can connect your video recorder to an audio/video amplifier through the two Cinch sockets **AUDIO OUT** (red and white) and the Cinch socket **VIDEO OUT** (yellow).

Your video recorder receives and records digital NICAM sound broadcast by certain European channels. It remains compatible with the sound of the analogue stereo system broadcast by other European countries.

# H I - F I s y s t e m

## Adjustment of the recording level

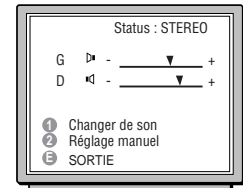
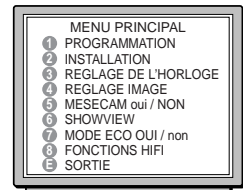
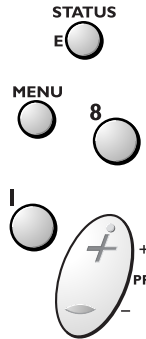
The sound level of the channels varies. If the quality of the sound of one of your recordings is poor, you should adjust the level.

A more precise adjustment is possible for the channels received in stereo only.

Press **E** and select your channel.

Press **MENU** and select **FONCTIONS HI-FI**.

For mono sound, make the changes to your liking by means of the **PR+** and **PR-** keys. Select the other sounds by means of key **1** and adjust with key **PR+** or **PR-**.

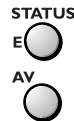


## The sound of the tapes

When viewing a HI-FI-STEREO tape, you can select the sound tracks with the **AV** key.

If the tape has been recorded in Dolby Surround or Dolby Pro Logic Surround, connection of a special audio/video amplifier will allow you to reproduce these sound effects.

- **STEREO** : stereo sound on the Hi-fi track
- **TRACK 1** : Sound on the left track
- **TRACK 2** : Sound on the right track
- **MONO** : mono sound on the linear track
- **MIX** : Sound on the mixed hi-fi and mono tracks.

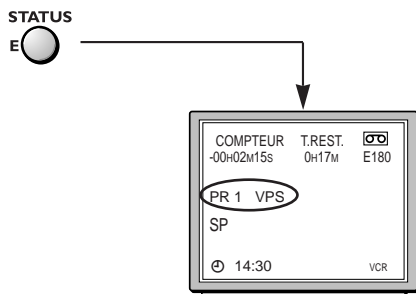


# V P S / P D C s y s t e m

.....

Some programmes broadcast on certain channels are transmitted using VPS (Video Programme System) or PDC (Programme Delivery Control). These signals precisely start or stop the recording even when there is a delay in the programme schedule. Your video recorder can recognise these signals.

**VPS or PDC appears on the information screen and on the display when the programme you are watching is transmitted in VPS or in PDC. In this case, you can use the functions below.**



## Programming the VPS/PDC recording

The programming menu (pages 8, 9) proposes options in which you will find the VPS or PDC line.

Select this option to start programming at the real start and finish times of the programme.

## Functions available on VPS programmes only

### Recording stopped by VPS

During the recording of a VPS programme, press key **D**.

The recording will stop when the programme is really over.

### Recording started by VPS

Switch the video recorder to standby-record, then press the **D** key. When the next VPS programme is broadcast, the video recorder activates recording.



# REGARDING programming

## Programming options

During the programming procedure, you can select the **OPTIONS** line that offers the following additional recording possibilities:

- (1) **LUN-VEN / HEBDO** – to record the same programme every day between Monday and Friday or every week at the same time.
- (2) **HEURE DE FIN +10 MINUTES** – to add 10, 20, or 30 minutes to the stop time to allow for programming delays and overrunning.
- (3) **SP/LP** – LP to double the recording time available on the tape.
- (4) **VPS ou PDC** – VPS/PDC for starting the recording the moment the programmer starts regardless of delays, provided that the channel broadcasts these signals (VPS or PDC on the video recorder control screen).

## Checking the programming

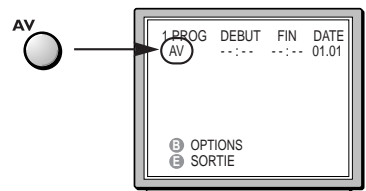
When the video recorder is on standby with symbols  and  on its display, press key **C** on your remote control to call the checking screen up.

## Erasing the programming

Switch on the video recorder and select **PROGRAMMATION** in the main menu (keys **MENU**, **1**). Seek the programming (from 1 to 8) with key **3** and erase it by pressing key **2**.

## Recording programmed on a connected set

Recording of a programme can be triggered by a satellite receiver or another appliance designed for the purpose (control voltage applied to pin 8) and connected to socket AV1 or AV2 with a SCART cable. This avoids having to programme both set. Programme the connected set and in the video recorder programming menu select AV1 or AV2 as appropriate.



# ADDITIONAL i n f o r m a t i o n s

.....

## Mesecam

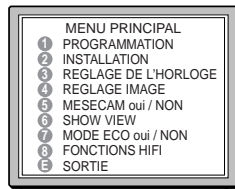
Tapes recorded in Mesecam can be viewed on a PAL-Mesecam video recorder.

Select **MESECAM OUI** in the Main Menu to record or playback a tape using Mesecam.

MENU



5



## NTSC tape

**NTSC** is the television standard used in the United States, Japan and other countries. Your video recorder can play **VHS-NTSC** tapes, but you must have a **PAL** standard TV set. Most **PAL** TV sets provide satisfactory pictures from **NTSC** tapes.

**SLP** on the video recorder display indicates that the tape was recorded using Super Long Play.

## Protection of the tapes

To avoid erasing one of your tapes by accidental over-recording, we recommend you protect them by breaking the security tab.

To reuse a protected tape, just stick a piece of adhesive tape on this place.



## Transition to the year 2000

On December 31st 1999 at midnight, the clock of your video recorder will switch over to the year 2000. However, should your appliance be disconnected from the mains at that moment, you will have to change the year manually.

Proceed as follows: press **MENU**, **3**, then enter time, day, month. With the keys **PR+** and **PR-**, position the cursor on the 1 of 199- and press 2. To replace the other digits, proceed likewise. Store by pressing **D**.

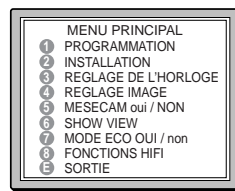
## Eco mode

Your video recorder can save energy thanks to the **ECO MODE** function which decreases the power consumption in **STANDBY** mode.

Only a red light is on.

With this mode activated, time is no longer displayed.

Press button **7** in the **MENU PRINCIPAL** to select **MODE ECO OUI**.



# ADDITIONAL i n f o r m a t i o n s .....

## Auto LongPlay

The video recorder has an Auto LongPlay function. If you have programmed a recording which exceeds the recording time remaining on the tape, the video recorder automatically transfers to Long Play mode (LP).

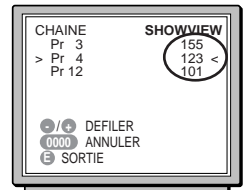
## ShowView

If ShowView programming does not operate correctly, it may be because the video recorder clock is not set correctly.

If the time is correctly set, check and correct if necessary the ShowView numbers assigned to the various channels.

Press buttons **MENU**, **2**, **3** one after the other to display the menu on the right:

Some television programme guides give the numbers corresponding to the channels. Follow the screen instructions to check and change the ShowView numbers.



Some cable or satellite channels share a transmission channel. To programme ShowView successfully for these channels, each channel has to be set up with a different Pr number and must also have a different ShowView number.

Refer to the «Manual Channel Setup» chapter of the Getting Started guide to modify the channel numbers if necessary.

## ShowView and the satellite demodulator

If you programme the recording, using ShowView codes, of a programme broadcast by satellite, the ShowView programmer can ask you to confirm the channel number (Pr99).

Connection by the aerial cable - During the automatic channel set-up, the video recorder has assigned channel number 99 to the satellite receiver connected by the aerial socket. Select this number to view the pictures of the satellite channels. Should these pictures not come up on the screen, refer to the Set-up manual, chapter "Manual channel set-up".

Connection by the AUDIO/VIDEO 1 or 2 socket - If your satellite receiver is connected to the video recorder by the audio video socket, do not choose a number but select the AV1 or AV2 socket.



## Technical features

Mains supply	200 to 240 V $\pm$ 10% - 50/60 Hz
Consumed power	22 W when ON - 3 W in ECO. MODE
Clock autonomy	approx. 30 minutes
Dimensions (W/H/D)	393 x 90 x 307,5 mm
Weight	approx. 4.0 kg
Functioning conditions	+5°C to +40°C - Surrounding humidity: 80 % maximum
Tape heads	Video - 4 rotary heads Audio - 2 rotary heads (HiFi) - 1 fixed head (mono)
Tuner	PLL, VPS/PDC Type
Reception band	I-III-IV Hertzian (aerial) Inter-band (cable network) Hyper-band (cable network)
Frequency ranges	45 to 855,25 MHz
Colour system	PAL - SECAM - MESECAM
Reception norms	Playing of an NTSC tape on TV PAL 60Hz
Number of storable channels	LL' - BG 99
Modulator	UHF - Channel 21 to 69 - Pre-set at the factory on channel 60 Standard G - K
Remote control	Infrared 33 Khz - Batteries 2 x 1,5 V (AAA)
Menu language	French
Automatic functions	On (using any key) Play (with protected tape) Rewinding (at the end of the tape) Long play (LP)
Tapes	VHS format - Rewinding time: 105s with E 180

## Identifying and correcting problems

If you have any problems, check the counter measure for each symptoms listed below. If the problem persists, note your VCR Model Number and Serial Number which can be found on the back of your VCR. Contact your nearest authorized service centre or dealer for assistance.

VCR set cannot be turned on.	<ol style="list-style-type: none"> <li>1. Make sure the power cord plug is inserted in an AC power outlet.</li> <li>2. Ensure the Power On/Off switch is on.</li> </ol>
Intermittent or no remote operation.	<ol style="list-style-type: none"> <li>1. Aim the remote control directly at the VCR. Nothing should be blocking the remote control and the VCR.</li> <li>2. Use new batteries. The batteries in the remote control may be weak or dead.</li> </ol>
Snowy picture. Noisy sound.	<ol style="list-style-type: none"> <li>1. Check your aerial or cable VCR connection.</li> <li>2. Check the antenna connection on the VCR and on the wall.</li> </ol>
Dotted lines or stripes Spotted picture (crosstalk.) Lines or streaks in picture (interference).	<ol style="list-style-type: none"> <li>1. This may be caused by local interference (e.g. cars, neon signs, hair dryers, personal computer, audio devices, handphone, radio stations, etc.). Try moving the interfering equipment or adjust the aerial antenna.</li> </ol>
Double images or "ghosts".	<ol style="list-style-type: none"> <li>1. A highly directional antenna may improve the Picture. This may be caused by reflections from nearby mountains or building.</li> </ol>
Good picture. Noisy sound.	<ol style="list-style-type: none"> <li>1. Check the transmission standard selected for the current VCR programme.</li> </ol>
No picture. No. sound.	<ol style="list-style-type: none"> <li>1. Ensure the power On/Off switch is on.</li> <li>2. Check the antenna connection.</li> </ol>
Recording is impossible:	<ol style="list-style-type: none"> <li>1. See if the safety tab of the cassette isn't broken.</li> <li>2. Check if you have properly performed the steps for the preparation of your recording as set out on page 7.</li> </ol>



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